





**DISCOVER NATURE** UNDERWATER photo by Dave Stonner

### **B** River Runners Discover the wonders of a stream from a canoe.

12 Missouri's Fastest In nature, fast animals have an edge.

### **DEPARTMENTS**

- 1 Photos With Nop & Dave
- 2 You Discover
- 4 Wild Jobs
- 5 Yuck!
- 5 Strange But True
- 6 What Is It?
- 7 My Outdoor Adventure
- 16 Xplor More



Visit www.xplormo.org for cool videos, sounds, photos, fun facts and more!



**GOVERNOR** Jeremiah W. "Jay" Nixon

### CONSERVATION COMMISSION

Don C. Bedell Don R. Johnson William F. "Chip" McGeehan Becky L. Plattner

> **DIRECTOR** Robert L. Ziehmer

### XPLOR STAFF

David Besenger Bonnie Chasteen Chris Cloyd Peg Craft

Les Fortenberry Chris Haefke

Karen Hudson Regina Knauer

Kevin Lanahan

Joan McKee

Kevin Muenks

Noppadol Paothong

Marci Porter Mark Raithel

Laura Scheuler

Matt Seek

**David Stonner** 

Nichole LeClair Terrill Stephanie Thurber

Alicia Weaver

Cliff White

Kipp Woods

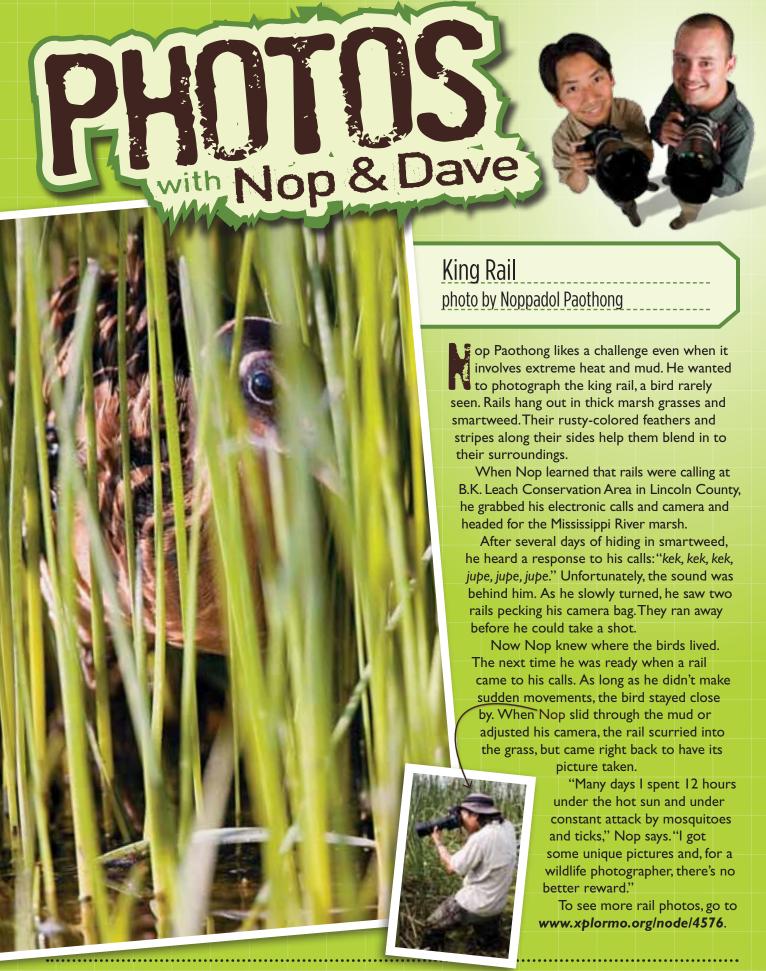
Xplor (ISSN 2151-8351) is published bimonthly. It is a publication of the Missouri Department of Conservation, 2901 West Truman Boulevard, Jefferson City, MO (Mailing address: PO Box 180, Jefferson City, MO 65102). Subscription free to Missouri residents (one per household); out of state \$5 per year; out of country \$8 per year. Please allow 6-8 weeks for first issue. Notification of address change must include both old and new address (send mailing label with the subscriber number on it) with 60-day notice. Preferred periodical postage paid at Jefferson City, Mo., and at additional entry offices. Postmaster: Send correspondence to Xplor Circulation, PO Box 180, Jefferson City, MO 65102-0180. Phone: 573-751-4115, ext. 3856 or 3249.

Copyright © 2010 by the Conservation Commission of the State of Missouri. Vol. 1, No. 3

Send editorial comments to: Mailing address: Xplor Magazine, PO Box 180, Jefferson City, MO 65102-0180; E-mail: Xplor@mdc. mo.gov. Please note: Xplor does not accept unsolicited article queries, manuscripts, photographs or artwork. Any unsolicited material sent will not be returned.

Equal opportunity to participate in and benefit from programs of the Missouri Department of Conservation is available to all individuals without regard to their race, color, national origin, sex, age or disability. Questions should be directed to the Department of Conservation, PO Box 180, Jefferson City, MO 65102, 573-751-4115 (voice) or 800-735-2966 (TTY), or to the U.S. Fish and Wildlife Service Division of Federal Assistance, 4401 N. Fairfax Drive, Mail Stop: MBSP-4020, Arlington, VA 22203.

We recycle. You can, too! Share Xplor with friends.





the sun for you to discover in June and July. Here are a few ideas to get you started.

## Witness a metamorphosis.

Search the undersides of milkweed plants for yellow, green and white monarch caterpillars. Bring a few home, keep them well fed with fresh milkweed leaves, and in a few weeks the hungry little caterpillars will turn into beautiful orange-and-black butterflies. It's magical to watch them flutter away. For tips on finding milkweed and keeping your caterpillars content, check out www.monarchwatch.org.



# Score a SWEET treat.



July is the heart of blackberry-picking season. The sweet, purple berries taste great by themselves, but are even yummier baked into desserts. Blackberry bushes don't surrender their fruits to the faint-hearted, so armor up with long pants, a long-sleeved shirt and bug spray to protect yourself from thorns and chiggers. For a yummy blackberry recipe, turn to Page 16.

# Catch some croakers.

Frog season opens at sunset on June 30. Put on clothes you don't mind getting muddy, grab a buddy, and head to a pond. Bring a flashlight and have your friend shine it in the face of the first frog you find. The frog will freeze, giving you time to sneak up from behind and grab it. You can let the little croaker go, or—with the right permits—bring it home for a gourmet meal. To learn the rules of froggin', visit www.mdc.mo.gov/3622.

# Catch fireflies

By now, fireflies should be flashing in parks, fields and backyards throughout the state. Catch a dozen or so, stuff them in a jar with holes punched in the lid, and let their glowing behinds be your nightlight. Just be sure to release your captives at dawn.

# Land a

mini-shark.

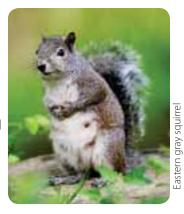
When the moon is bright and the wind is calm, head to a pond and twitch a topwater lure across its surface. In no time, the still water will erupt in a frenzy of shark-like splashing as hungry largemouth bass lunge to the surface to inhale your lure. After all that excitement, don't forget to set the hook and hang on for a fight.

### Find a hidden universe.

A whole universe of life exists in places where we normally don't look. Want proof? Roll over a fallen log or turn over a rock and watch what crawls, scurries and slithers out from underneath. After you've boldly gone where no kid has gone before, be sure to put everything back in its original place.

# Bag some bushytails.

Mother squirrels bear a second litter of babies in late spring, offering a bumper crop of bushytails to hunt in June and July. But just because they're young, doesn't mean



they're easy. Bagging a limit requires some serious sharpshooting! Consider it summer school for fall hunting seasons, and hit the woods to practice shooting. For hunting rules and tips on cleaning squirrels, visit www.xplormo.org/node/4590.

# Visit a prairie.

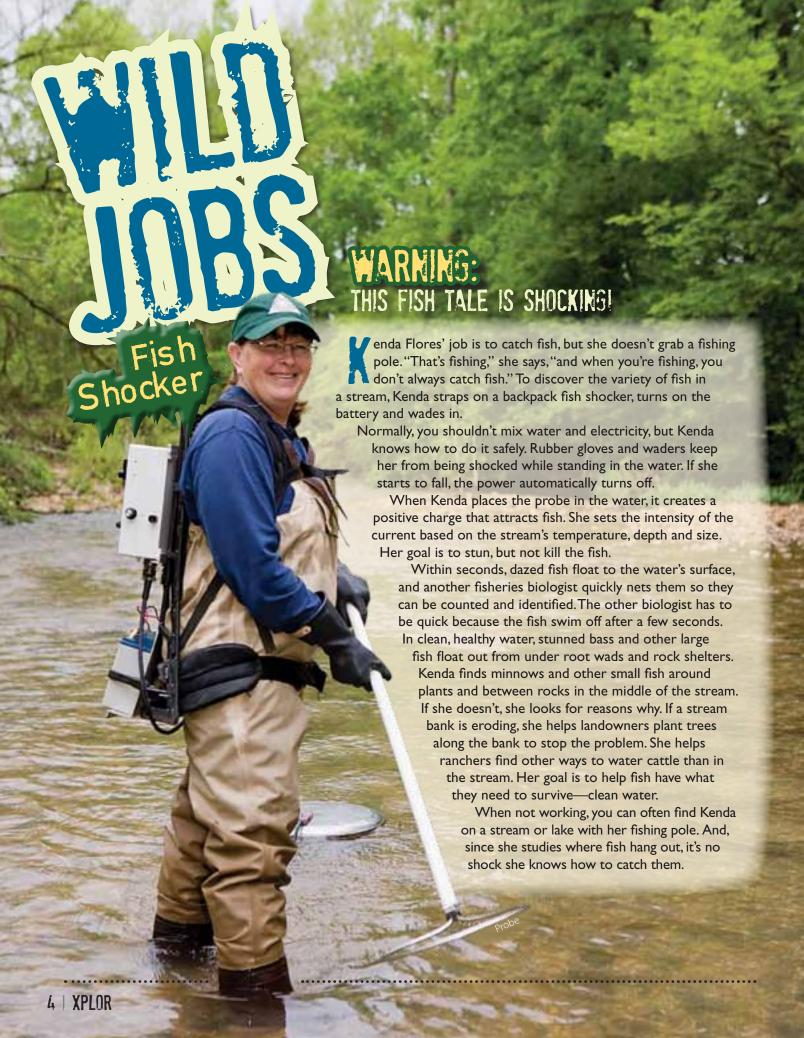
Every June on prairies throughout Missouri, nature puts on an early fireworks show of brilliantly blooming wildflowers. Pack a picnic lunch, bring along a butterfly net, and go on a romp through one of these multi-colored

grasslands. For directions to the nearest prairie, visit www.mdc.mo.gov/76.



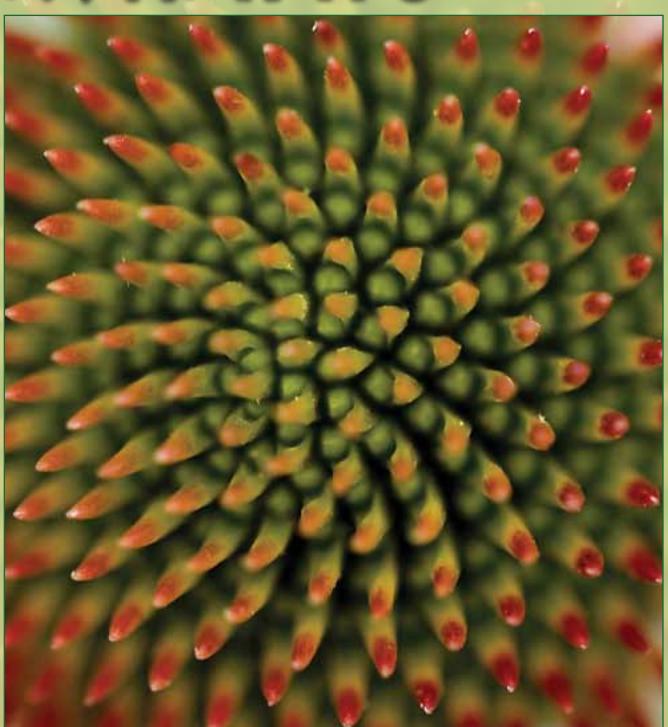
Looking for more ways to have fun outside? Find out about Discover Nature events in your area at www.xplormo.org/xplor/stuff-do/all-events.







### **DON'T KNOW?** Jump to Page 16 to find out.



Sometimes I'm wild. Sometimes I'm not. At my peak, I attract quite a flutter.

I have a cone, but it's never topped with ice cream. I grow my own birdseed.

# BY BROOKE TUTTLE, AGE 11

he sun's not up," Brooke groaned. Fishing at the trout park was fun. Getting up early was not. Brooke wolfed down breakfast, grabbed her tackle, and followed her dad to the stream.

fishing for a while with no luck, Brooke decided to wade to a different spot. On the way, her waders snagged a branch. Water leaked in, and within seconds, Brooke was wet, cold and really unhappy! She rushed back to camp for dry clothes and new waders.

In no time. Brooke was back fishing. She felt a tiny tug on her line."Wait ... wait," she told herself. Then she felt another tugstronger this time-and jerked hard to set the hook.

> Fishing line screamed off her reel as the huge trout sped away. Brooke gave just enough slack to avoid snapping her line. When the fish finally tired, Brooke reeled it in. Her dad was ready with a net, and together they landed the biggest trout Brooke had ever seen.

After catching her limit, Brooke put the lunker in a cooler to take home. They fried the rest of her catch for supper. Later that night, her dad awoke to a raccoon family feasting on their leftovers. Brooke didn't wake up. She was beat from a longbut excitingday of fishing.

Want to catch a lunker like Brooke did? For trout fishing tips and info, visit www.mdc.mo.gov/7248.



iscover the wonders of a river from a canoe. Here are some adventures and tips from a 5-mile float down the Meramec River on a sunny, summer afternoon.



### GOING WITH THE FLOW

To paddle a canoe, you need to know how the river flows. The current takes you along the outside bend when the river turns. When the river is straight, the current shoots you down the middle. If you go toward shore where it is shallow, you will be out of the current. One of the best ways to see how current works is to take a swim. You'll see right away how the river moves you downstream. Also, jumping in is the best way to cool off on a hot day!

.....







### FISHING FUN

Take some worms—real or plastic (pink is a bass favorite)—and cast near brush or root wads along the shore. If you float next to a tall bluff, try casting around submerged rocks in deep pools. That's where the big lunkers lie in wait for a snack.

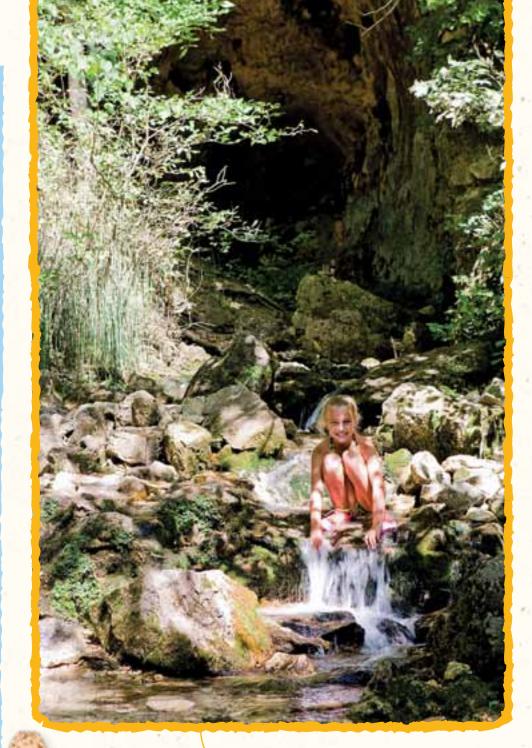


### DISCOVERING CRITTERS

A net is a must for seeing small aquatic critters up close. A longhandled net can help you capture a toad or frog along the shore. To catch crayfish lurking on the bottom of the stream, carefully place the net behind the critter, then act like you are going to catch it from the front. The crayfish will try to escape your grasp by moving backward into your net. Watch out for the pincers on the big ones! Ouch! JUNE/JULY 2010 | 9

### WHAT TO BRING

- Life vest that allows your arms to move so you can paddle and fish
- Sun screen so you can stay out in the sun all day
- Polorizing sun glasses so you can see the fish in the water
- **Hat** to keep the sun off your face
- Shoes that will stay on in the current and let you walk on rocks
- Fishing pole and lures so you can see fish up close
- Net to catch interesting critters in the water
- Flashlight for investigating holes along the bank and exploring at night
- Water goggles or snorkle and mask to see what lives in the water
- Cooler filled with your favorite snacks and drinks



### **EXPLORING THE BANKS**

Most Missouri streams have interesting bluffs, springs, gravel bars and rock shelters that are perfect for exploring. At other places along the river, you might find small openings or holes dug in the mud banks. These may be home to beavers, mink or otters. Paddle up close, and use your flashlight to see what lurks in the dark.



### **ROCK HOUNDS**

Rie Tunner necklace

Ozark streams have rocky bottoms. In one chute in the Meramec River, geodes—rocks with crystals inside—were lying about 2 feet underwater. The crystals sparkled in the sun. As the fast current flows over rocks, they may erode into strange shapes. Some of these rocks provide shelters for aquatic creatures, like crayfish. When looking for river-bottom dwellers, you might find a rock with a hole in it. Use a piece of string to make a souvenir of your trip—a river-runner necklace.





Floating with friends is best, but sometimes parents come in handy—especially if you need a boost into the air. Find a deep swimming hole and a strong adult, and let the splashing begin.



Get out of the summer heat this summer on one of Missouri's rivers. This adventure was from Sappington Bridge Access in Crawford County to Meramec State Park. For a list of outfitters to help you plan a trip, go to www.missouricanoe.org/directory.











### Ingredients

I cup sugar

1/4 cup shortening

½ cup milk

3/4 cup flour

I teaspoon baking powder

¼ teaspoon salt

3 cups fresh blackberries

2 tablespoons butter

3/4 cup water

### Instructions

- I. Grab an adult to help.
- 2. Preheat your oven to 400 degrees. In a mixing bowl, combine ½ cup sugar and the shortening. Use a hand mixer to blend it until it's creamy.
- 3. Mix in the milk, flour, baking powder and salt.
- 4. Grease a square 8-inch cake pan and pour in the batter.
- 5. Top the batter with blackberries. Use a butter knife (or your fingers) to flake bits of butter on top of the berries. Sprinkle  $\frac{1}{2}$  cup sugar over the whole thing.
- 6. Bring the water to a boil and carefully pour it over the berries and batter.
- 7. Bake for about 30 minutes until the top turns golden brown.

## SOMERSAULT LINVSHEWOS BLACKBERRY COBBLER

What to do with the blackberries you've picked? Sprinkle them on top of a cobbler, and watch them somersault under the batter as it bakes. You'll flip, too, when you taste how yummy it is.

### **ANSWER TO**

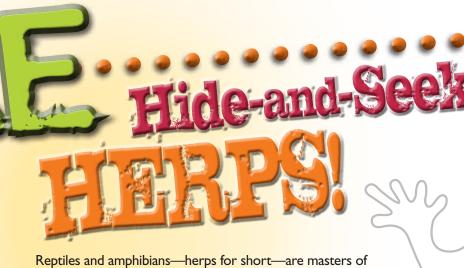
## WHATIS?

FROM PAGE 6

Pale purple coneflowers grow wild on prairies and glades. Because they're so pretty, people also plant them in their backyards. When blooming peaks from May to July,



butterflies flutter in to slurp the coneflower's nectar. In the fall, birds feast on seeds made by the plant's cone.



disguise. Many have markings on their skin and scales that make them blend in with their surroundings. This camouflage helps the herp ambush prey and hide from predators.

Are you a master of disguise? Color this lizard to match a background around your house, such as the flowers in your garden. Cut it out, hide it on the background, and have a friend see if they can spot it. For more herps to hide, visit www.xplormo.org/node/4581.

### **Cool Facts**

The pattern on a prairie lizard's back helps it disappear when it's crawling over rocks or tree trunks. Flip a male lizard over, however, and you'll find a neon-blue tummy that he flashes to impress females.

Gray treefrogs can't change clothes—they don't wear any-but they can change their skin color. These quick-change amphibians turn from gray to brown to green as they climb from plant to plant.

> A copperhead's color and hourglass-shaped markings help it blend in with dead leaves on the forest floor. This venomous snake is a sit-and-wait predator. It finds a mouse trail, coils nearby and waits for a rodent to scurry by.

> > Copperhead



Show-Me Herps, our eyepopping guide to reptiles and amphibians, will be slithering soon to a shelf near you. Hop over to www.mdcnatureshop.com for a copy.

airie lizard

(May treefrog

### SUBSCRIBE ONLINE

www.xplormo.org

FREE TO MISSOURI HOUSEHOLDS



Eat your vegetables. Many of the plants nibbled on by this salt marsh caterpillar contain poisonous chemicals. The poisons won't kill the spiky-haired worm, but they do make the caterpillar taste yucky enough that predators avoid eating it.